

ABSTRACT

[0029] A compliant stator motor is disclosed. In one implementation, the motor (200) includes a rotor (210), a stator (220) having main and auxiliary windings, an outer motor case (230), and a group of isolators (240) positioned between the stator (220) and outer motor case (230) to enhance forces applied to the foundation (260) due to excitation of the auxiliary windings. In another implementation, the motor (300) includes a rotor (310), a stator (320) including main and auxiliary windings, linear bearings (320) configured to constrain a motion of the stator (320) to an axial direction, and isolators (330) connected to the stator (320) and configured to enhance axial forces applied to the foundation due to excitation of the auxiliary windings.